

Listing of Claims:

1. (Currently amended) A thermal and acoustical insulation product comprising:

rotary glass fibers;
thermoplastic fibers;
textile glass fibers; and

at least one binder, wherein the fibers and the at least one binder are blended together, the at least one binder bonding the fibers together to form the insulation product and the total glass fiber content is about 30-50 wt. % of said insulation product and said textile glass fibers make up less than about 20 wt. % of the total glass fiber content of said insulation product.

2. (Original) The thermal and acoustical insulation product of claim 1, wherein said rotary fibers comprise scrap fibers.
3. (Original) The thermal and acoustical insulation product of claim 1, wherein said thermoplastic fibers comprise scrap nylon fibers.
4. (Currently amended) The thermal and acoustical insulation product of claim 1, wherein said textile glass fibers comprise scrap fibers.
5. (Original) The thermal and acoustical insulation product of claim 1, wherein said thermoplastic fibers are about 6 to 130 mm in length.
6. (Original) The thermal and acoustical insulation product of claim 1, wherein said thermoplastic fibers are about 13 to 102 mm in length.
7. (Original) The thermal and acoustical insulation product of claim 1, wherein said thermoplastic fibers have a diameter of about 20 to 50 micrometers.
8. (Original) The thermal and acoustical insulation product of claim 1, wherein said thermoplastic fibers make up about 30 to 50 wt. % of said insulation product.

9. (Original) The thermal and acoustical insulation product of claim 1, wherein said rotary fibers have an average diameter of about 3 to 5 micrometers.
10. (Original) The thermal and acoustical insulation product of claim 1, wherein said rotary fibers have an average diameter of about 4 to 5 micrometers.
11. (Original) The thermal and acoustical insulation product of claim 1, wherein said rotary fibers have an average fiber length of less than about 100 mm.
12. (Original) The thermal and acoustical insulation product of claim 1, wherein said rotary fibers have an average fiber length of less than about 75 mm.
13. (Canceled)
14. (Canceled)
15. (Currently amended) The thermal and acoustical insulation product of claim 1, wherein said textile glass fibers have an average diameter of about 6 to 20 micrometers.
16. (Currently amended) The thermal and acoustical insulation product of claim 1, wherein said textile glass fibers have an average fiber length of about 13 to 130 mm.
17. (Original) The thermal and acoustical insulation product of claim 1, wherein said insulation product has a gram weight in the range of about 530 to 3750 gm/m².
18. (Original) The thermal and acoustical insulation product of claim 1, wherein said insulation product has a gram weight in the range of about 700 to 3300 gm/m².
19. (Original) The thermal and acoustical insulation product of claim 1, wherein said insulation product has a density in the range of about 16 to 56 kg/m³.

20. (Original) The thermal and acoustical insulation product of claim 1, wherein said insulation product has a density in the range of about 24 to 48 kg/m³.
21. (Original) The thermal and acoustical insulation product of claim 1, wherein said insulation product has a thickness of about 10 to 200 mm.
22. (Original) The thermal and acoustical insulation product of claim 1, wherein said insulation product has a thickness of about 10 to 50 mm.
23. (Original) The thermal and acoustical insulation product of claim 1, wherein said binder is a thermosetting resin powdered binder at about 5 to 35 wt. % of said insulation product.
24. (Original) The thermal and acoustical insulation product of claim 1, wherein said binder is a thermosetting resin powdered binder at about 10 to 20 wt. % of said insulation product.
25. (Original) The thermal and acoustical insulation product of claim 1, wherein said binder is a thermoplastic powdered binder at about 5 to 35 wt. % of said insulation product.
26. (Original) The thermal and acoustical insulation product of claim 1, wherein said binder is a thermoplastic powdered binder at about 10 to 20 wt. % of said insulation product.
27. (Currently amended) A thermal and acoustical insulation product ~~bat~~ comprising:
a fibrous insulation mat having a first side and a second side, said mat comprising:
 rotary glass fibers;
 thermoplastic fibers;
 textile glass fibers;
 at least one binder, wherein the fibers and the at least one binder are blended together, the at least one binder bonding the fibers together to form the fibrous insulation mat, the total glass fiber content is about 30-50 wt. % of said insulation product and said textile glass fibers make up less than about 20 wt. % of the total glass fiber content of said insulation product; and

a non-woven facing layer bonded to at least one of said two sides of the fibrous insulation mat.

28. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said rotary glass fibers comprise scrap fibers.

29. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said thermoplastic fibers comprise scrap nylon fibers.

30. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said textile glass fibers comprise scrap fibers.

31. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said thermoplastic fibers are about 6 to 130 mm in length.

32. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said thermoplastic fibers are about 13 to 102 mm in length.

33. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said thermoplastic fibers have an average diameter of about 20 to 50 micrometers.

34. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said thermoplastic fibers make up about 30 to 50 wt. % of said insulation batt.

35. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said rotary fibers have an average diameter of about 3 to 5 micrometers.

36. (Currently amended) The thermal and acoustical insulation product batt of claim 27, wherein said rotary fibers have an average diameter of about 4 to 5 micrometers.

37. (Currently amended) The thermal and acoustical insulation product ~~bat~~ of claim 27, wherein said rotary fibers have an average fiber length of less than about 100 mm.
38. (Currently amended) The thermal and acoustical insulation product ~~bat~~ of claim 27, wherein said rotary fibers have an average fiber length of less than about 75 mm.
39. (Canceled)
40. (Canceled)
41. (Currently amended) The thermal and acoustical insulation product ~~bat~~ of claim 27, wherein said textile glass fibers have an average diameter of about 6 to 20 micrometers.
42. (Currently amended) The thermal and acoustical insulation product ~~bat~~ of claim 27, wherein said textile glass fibers have an average fiber length of about 13 to 130 mm.
- 43.- 47. (Canceled)
48. (Currently amended) A thermal and acoustical insulation product comprising:
a blended mixture of rotary and textile glass fibers, thermoplastic fibers and resinous binder, said rotary and textile glass fibers being bonded together by the combined adhesion caused by heating said blended mixture whereby said thermoplastic fibers and said resinous binder are disposed at least partially in molten state and thereafter cooling said heated blended mixture to ambient temperature to form said insulation product, wherein the total glass fiber content is about 30-50 wt. % of said insulation product and said textile glass fibers make up less than about 20 wt. % of the total glass fiber content of said insulation product.
49. (Original) The insulation product of claim 48, wherein said thermoplastic fibers comprise nylon.

50. (Previously presented) The insulation product of claim 48, wherein said resinous binder is a powdered or liquid, thermosetting or thermoplastic binder.
51. (New) The insulation product of claim 48, wherein said rotary glass fibers comprise scrap fibers.
52. (New) The insulation product of claim 48, wherein said thermoplastic fibers comprise scrap nylon fibers.
53. (New) The insulation product of claim 48, wherein said textile glass fibers comprise scrap fibers.